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BUSINESS

Solar power takes its place in the sun

THIS WEEK SEES THE BIRTH OF THE EMIRATES SOLAR INDUSTRY ASSOCIATION, WHICH WILL GIVE ITS MEMBERS MORE CLOUT

By Manoj Nair Associate Editor

Dubai If a concerted and sustained effort to heat up the country's fledgling solar energy industry has been missing, it's emerging right now.

Stakeholders hope that this push will ensure this energy source will at last get its rightful place under the sun.

This week sees the formal unveiling of the Emirates Solar Industry Association, an initiative of Abu Dhabi's Masdar Institute, which expects to bring together all the players in the industry to unleash the full potential the alternate energy resource offers.

Apart from those entities directly involved in solar energy - whether in photovoltaics (PV), concentrating solar power (CSP) or solar thermal - the new group also plans to create roles for suppliers to the industry such as glass, steel and engineering companies.

At the top of its agenda is the creation of nothing less than a full-blown solar "cluster" in the country and, by doing so, create business opportunities for its members.

The association will also come to the aid of international entities in the solar energy field that wish to set up bases in the country.

The fact that the initiative comes with the backing of Masdar Institute immediately raises its profile.

The entity has the necessary gravitas and more to channel the disparate voices within the local solar energy industry into a focused group that can wield a lot of clout.

Let the sun shine

WHY NOT GO HYBRID?

Rather than go with any one alternate energy form, why not think

"It is clear that at some stage we will not be able to meet our

increasing energy needs from a finite supply of non-renewable

"Hybrid systems will provide a higher level of energy security through

the mix of generation methods and ensure maximum supply reliability."

As the name implies, these systems combine two or more modes of

"For instance, there are successful renewable energy projects being

developed in Spain, Morocco, Egypt and Australia which make use of

"I believe that it is a step-by-step process which necessitates the

industry to walk before it can run. As deployment of solar technology

combined energy sources such as part LNG and part solar using hybrid

resources," said Prabissh Thomas of PTL Solar in Jebel Ali.

electricity generation using renewable technologies.

systems," said Laurent de Morelos of the Equilibre Group.

becomes more affordable, the project can rely more on solar."

sector has historically tak-

ited to date.

support".

THINK AHEAD

hybrid?

"A non-governmental solar energy grouping will create a boom in the industry, allowing an environment where all private bodies can research and implement innovative technologies," said Prabissh Thomas, managing director at PTL Solar in Jebel Ali, which in the past has supplied Iraq with its solar solutions.

"Solar will light up the path for countries seeking energy independence and cost-effective means of energy generation," Thomas said.

"The solar energy grouping [in the UAE] will also create new jobs with specialist skill sets."

There is a lot to be said for the kind of traction that an industry grouping can provide, not the least of which is paving the way can make a difference, and sign such economically vifor fresh capacities to be make it count. added.

In recent times, these ca- tor at Equilibre Group in are given. pacities have been doubling Dubai, an alternate energy every few years or so.

Not only that, the global landed a major contract in ing weeks. solar industry is showing Mauritius. itself to be resilient to economic pressures.

ting and efficiency im- energy from the sun all mounting costs of feed-in provements, the photovoltaics industry has managed to achieve a growth velop solar energy projects rate of 87 per cent, or 13.8 in the UAE and the region and soaring public deficits GW, of newly installed ca- should be encouraged by are causing headaches for pacity in 2010," said a re- both the public and private many governments in Eucent report by Bank Sara- sectors." sin, the Swiss financial institution.

added over the next two years. The PV industry mental aspect that governmensions."

These markets would be France, Italy, Spain, the US, now step up to the plate? Canada, China, India and Japan.

Despite its location and newable energy industry the financial advantages, to come up with commer- the need for the private the Middle East has yet to cially viable projects which sector to do more for solar take the necessary strides can be well received by the energy adoption. to put itself on the global investor markets without industry.

With easy access to hydrocarbons on tap, there able return on investment hasn't been a compulsion and low risk will certainly to change.

This is where entities vestors. such as the Emirates Solar Energy Association ing outside the box to de- Morelos.

able project schemes. But "I do believe the region it is possible," he said.

A theme the industry likes as a whole is behind the The Bank Sarasin report to repeat is that the cost to ball concerning the use highlights concerns in Euproduce one watt of solar of solar energy and must ropean government circles power drops by as much as catch up with the rest of and among consumers 20 per cent each time the the world," said Laurent de about the level of subsidies installed capacity doubles. Morelos, managing direc- that solar energy projects

- M.N.

Major cuts in those subfirm which says it has just sidies are expected in com-

"There is growing criti-"The UAE is located in cism from political circles the best part of the global and consumer pressure "Supported by cost-cut- sunbelt to collect valuable groups about the size and year round. It is never too tariffs for solar power," the late and any action to de- report said.

"Rising electricity prices rope, and solar energy is In the UAE, the public becoming a scapegoat. "The crux of the mat-

"At least eight new PV en the lead in alternate en- ter is that these additional markets with a potential ergy programmes and hav- costs can be accurately calannual capacity of 500 ing the financial muscle to culated, while the associ-MW are expected to be do so has been a key factor. ated savings are not quite There's also the environ- as easy to quantify. "Investors would like

will therefore acquire the ments cannot let slide from conditions governing tarstability and political au- the agenda. All this is not iffs to be stable and pretonomy it needs to be able to say private enterprises dictable - an essential to continue to grow unim- have no role, but it's been prerequisite for calculatpeded and to enter new di- disparate and at best lim- ing and financing future projects."

This may well be a con-Can the private sector cern confined to Europe De Morelos said: "It is and, for sure, would have quite essential for the re- no resonance in the Gulf.

Yet, it does not mitigate

"In Europe private constage in the solar energy relying on public sector sumers are given the opportunity to invest in solar "Projects with a reason- systems and get a return on their investment or reduce their electric bills through retain the attention of in- selling back the excess power they produce to "It does take some think- utility companies," said de

GLOBAL POWER CAPACITY COMPARISON

Water is heated at the Grand Hyatt Hotel using solar panels. The Emirates Solar Industry Association will bring together all the solar power players across the country to unleash the energy source's full potential.

	Newly installed capacity (MW)				CAGR*			
	2009	2010	2011	2012	2013	2014	2015	09-15
Germany	3 8 4 5	6 900	5 500	4 300	4 515	4 650	4 697	3%
Italy	723	1350	2 025	2 228	2 339	2 503	2 878	26%
Spain	60	250	535	660	900	1100	1375	69%
Greece	36	100	150	218	294	352	430	51%
France	250	630	1008	1 512	2 117	2710	3 455	55%
Portugal	34	55	85	128	176	222	283	42%
Czech Rep.	411	1130	230	120	140	176	225	-10%
Belgium	292	100	120	130	135	170	217	-5%
Switzerland	26	30	60	70	80	90	100	25%
Rest of Europe	43	75	120	160	255	400	618	56%
Europe	5720	10 620	9 833	9 525	10 951	12 374	14 278	16%
US	473	1000	2 000	3 600	5 760	8 352	11 275	70%
China	165	377	778	1458	2500	3 685	5 159	77%
India	30	80	152	274	443	629	887	76%
Japan	483	800	1040	1300	1599	1951	2 3 6 0	30%
South Korea	84	130	160	. 204	256	319	394	29%
Rest of Asia	186 -	300	420	546	699	888	1118	35%
Asia	948	1687	2 550	3 782	5 497	7 472	9 919	48%
Rest of the World	261	500	800	1360	2 244	3 590	5 027	64%



INNOVATION SWEET DIESEL DEAL

Dubai The Equilibre Group in Dubai says it is finalising a proposal for an industrial project in Mauritius which would involve deployment of a new waste-conversion technology.

It's said to be a first of its kind in the island state. The industrial process developed and patented by Germany's Alphakat coverts organic material into synthetic green diesel using "KDV" technology. The proposed plant in Mauritius would have an annual capacity for 30,000 tonnes of diesel converted from sugar cane "bagasse". Future expansion could double this to 60,000

By getting the project on stream, likely by 2013, the Mauritius government's intention is to cut future diesel fuel imports by as much as 40 per cent. "In its initial phase, the plant will require a

minimum annual bagasse feedstock of 130,000 tonnes," said Laurent de Morelos of Equilibre. "During the plant second development phase, the requirement will jump to 260,000 tonnes a year." The promoters said they were looking to have Phase One of the project delivered in 2012 and the second the year after.

- Staff Report

Here comes the sun

Gulf News Archive

Rows of solar panels supply

Controls building in Jebel Ali.

energy to power the Pacific

Two main systems compete for dominance

By Manoj Nair Associate Editor

Dubai Photovoltaics continue to rule as the favoured solar energy process, while for the competing concentrating solar power (CSP) systems it's very much a case of trying to close the gap.

Holding back wider usage is the fact that a CSP plant takes on average anywhere up to four years to complete. In stark contrast, a small-

er PV project of two to 20 MW can easily get into the commissioning phase in 18 to 24 months. Even with such disad-

vantages, according to the Bank Sarasin report, CSP systems would still have a role, and an expanded one at that.

"The CSP industry has the potential to cut its electricity production costs by 30 to 50 per cent in the coming years," the report said.

Better quality

"Furthermore, solar thermal electricity (STE) can provide a better quality of electricity for utilities because it is easier to store and dispatch, and is also suitable for use in hybrid power plants.

"Over the next 10 years the number of CSP plants will grow by 12 per cent per annum on average.

"This will bring cumulative CSP capacity to 32 GW by 2020."

In the past two years, 1.4 GW of new capacity was

installed in the CSP space. As for PV systems, newly installed capacity worldwide is expected to rise 33 per cent annually leading up to 2015.

"By 2020 we expect the global market volume to rise to 116 GW newly installed capacity," the report said.

Have your say

Do you think it makes sense to use solar power at home? Would you personally invest in solar energy?

Tell us at readers@gulfnews.com